



## **IOC Products and Services**

IOTWS Communications Plan Alert, Earthquake Sea Level display/stations Tsunami event data

Laura Kong, Director, ITIC ICG/IOTWS-III Bali, Indonesia, 31 Jul - 2 Aug 2006

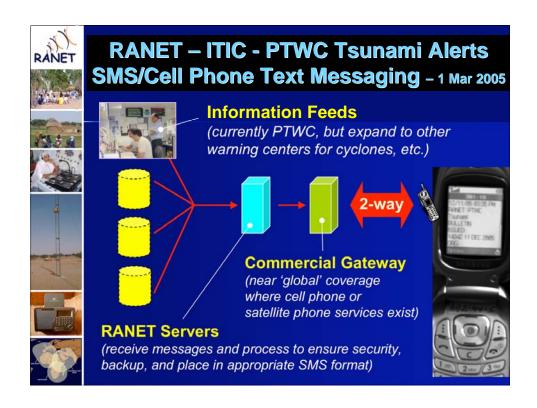
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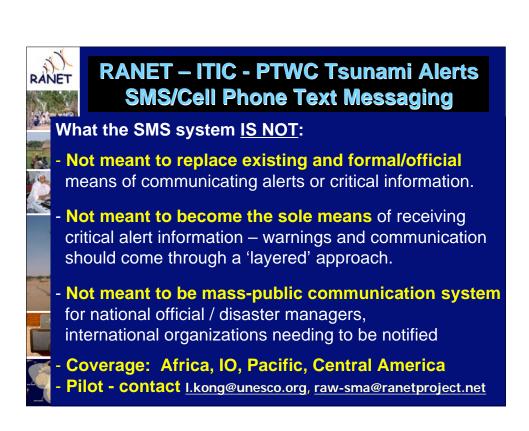
## Communications Plan for Interim Advisory Information System the Indian Ocean Region, vers 16 Jan 2006

- Interim advisories by PTWC, JMA
- 10-20 min after earthquake based on seismic information Since April 2005, 13 events - PWTC (16 min), JMA (24 min) Under SOP, PTWC takes lead, followed by JMA msg
- As sea level stations are installed, advisories based on tsunami confirmation to be issued
- Consistent format and wording of message
- Consistent reporting of earthquake location and magnitude
- Communications Test 4x/year
   TWC requests confirmation that links working

#### **Actions Tasks:**

IOC/PTWC/JMA: Update Comm Plan (stations, TWFP, svcs)
IOTWS Member States: Review Tsunami Warning Focal Point
Updates to IOC, JMA





# Alert Services Real-Time Earthquake Display and Alert System (USGS – US NTHMP)

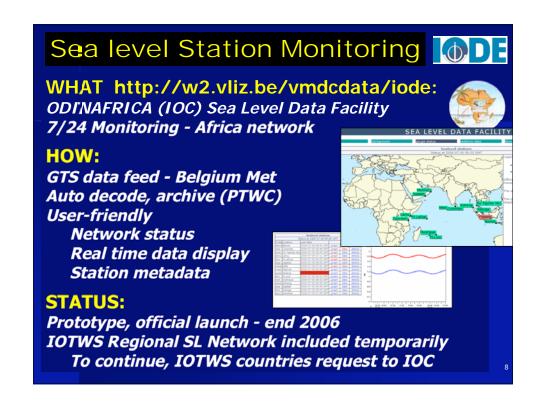
Multi-platform
Internet
EQ broadcast
Alert system
(page, email)
GIS
Tsunami
Warning



## Alert Services Real-time Earthquake Display and Alert System (USGS – US NTHMP)

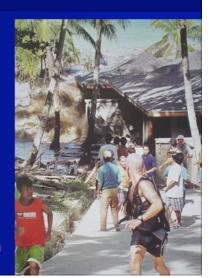
- Further enhancements (2006, v2.0):
- Integrated Display and Emailer with text messaging
- Tsunami Warning Message alerting RED flashing
- Tsunami travel time / model layers
- Improved customization, GIS data layering, include raster images (currently vector only)
- SIGN-UP: ITIC will be local administrator
- Send email to itic.tsunami@noaa.gov

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## Preserving Critical Tsunami Information

- Reconnaissance teams visit affected areas after tsunami events
  - Gather critical info including
    - Estimates of runup, scour, beach erosion, etc.
    - Physical measurements of damage
    - Eyewitness accounts
  - This info "disappears" if not gathered immediately
- Why?
   Observations benchmark models ⇒ Better mitigation



### **Tsunami Reconnaissance Data Repository**

hosted by San Diego Supercomputer mirror site IOC IODE, Belgium







- New digital repository for reconnaissance data -Dec. 26<sup>th</sup> tsunami
  - Centralized archive with backup and preservation capabilities
  - User-friendly tools for searching / exploring / analyzing / extracting data
  - Curated by experts
  - Ability for community to add commentary
- Developed as part of US NSF NEES program
  - George E. Brown, Jr. Network for Earthquake Engineering Simulation (NEES)
- Support efforts of IUGG Tsunami Commission data collection by providing archiving facility

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### **Tsunami Data Preservation Goals**

- Preserve key data 26 Dec tsunami
  - would otherwise be scattered or lost
- In future, facility can preserve all tsunami data
- Make data widely accessible via Web interface /tools
  - in ways that make sense to non-specialists
- Add methods/tools compatible with emerging standards
  - so data can be crossanalyzed w/other sources



## How You Can Help? contact I.kong@unesco.org

- Contribute relevant data from the international tsunami community
  - Maps and satellite imagery
  - Topographic and bathymetry data
  - Images and videos
  - Field measurements (inundation data, beach profiles, scour data, land uplift/subsidence, etc)
  - Post-event questionnaires and surveys
  - Recorded tsunami data (e.g., tide gauges)
  - Observations of damage to buildings and infrastructure
  - Eyewitness accounts and personal interviews
  - Casualties and other social impact statistics